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Forberg Field Book no 51

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And the in 1 so

1958 Florida march 22 - thight from Miami to Managua Left Miami 7:25 Everglader are grayfrom plains with low vegetation (saw grass?) and vivid green patcher of woods (hammodes). Much of the oneg seen is wet deven summand. Near Miami the plain several large represents (mail fit;? coment plants?) maritaryface. The the plants are white. This area also has draining ditcher. after this peripheral area wadi and canals are seary. The hammonly are mostly small and in places extremaly numerous, in other place, scarce. 18:50 forme patcher of spanse frine fromest under plane and close to course. Leveral notes out, beyond a curved was is a curious pauled arrangement of elongate patches of regetation inthe direction of the course, looks

1959 Florida Florida - Cuba sandy. amount of street like drainage development seeming yout This changes into of proportion to number of spolly regitation and a great series Islands exceedingly inequal 8:09 in outline, separated by flooded swamp-land, shallow water, many some of it mangrove, KeyWest lagrons. some a trownish - green 813 lower regetation. The lagurer are muddy Harana Havana Eversed coast time, copy lable Land around city almost entirely under cultivation scalloffed a cuspate soil a bright hematite red. peninsula with a very West along coast a rather nann sand beach wide crastal strip of just, I right of come, of woods for toward inland The transfer winds in following ratherallel edge of it. Inland in cultivates and some Their direction but gradually coming closer. worded fatches clas. 3.43 If shore several miles The water is greenish muddy a curved strif of island colonnells of beg. a bar cut by transverse Inversolated small 8:03 channels - perhaps a wooded beg noth of Jal of sea level. Thosed by main chain and highway have curious spits like Inside this some islands tadpoles tails. with dark purplish red soil, Large worded heys partir wooded, very flat. with real estate priojects. The barries reef may be almost under plane. The landward edge of 9:06 Key n both sides of course a large atoll-like structure. mostly wooded but with most islet development many areas grassy or

Iwan . Cuba - Se of Pines nicaraqua or n south side 10:09 Lwan Island - visibility West end of Cuba to south from - wilding on west or 8.4-8 in distance nothwest and rest apparently worded (in in evenut plantetion). Has shof lines - southest station for some sort or side very inequelar, Groad mangrove belt an navigation system. with some Englier Continuous clouds andy awas, apparently Breaks in clouds of raised need limestone show continuous luquias fudging by juty. frest on somewhat Inland is dry savana. wigh terrain the area, very flat. Dull green canoly with Westward entire write lighter green emergents, frant of island is a very few bright yellow apparently a coral plain (possibly early emergents in flower - looks but pits suggest with) like typical primary rain frest. covered by dense low Continuous cloudy 10:40 send or semb-freet, small breaks in clouds, 10:46 very ever drab green. dense frest. small breaks - hense fræst 10.43 almy court some small inequelar as described about a small vive crosser gurse, dark lagons. I westward water not muddy accountal area of Light green emergent heer round that is either anspieurus, numerous. rather young or is unfavorable to semb 10:57 Clouds. -157 Stream at acute angle & course, regetation as is very thinly vegetated, appear sandy not muldy is cloude 157 beach - dense prest the island are no roads 56 clouds. not even trails, apparently,

1958 Nicaragua Micaragua re ist becomes len Briskoin clouds - densely parted Engo de Managnaville - 11:06 for mountains. Dull green, alread. Sand about 13 1 2 in send a send good, the occasional reddish flowering her. nest in cleared paterner, dry 11:06 First cleaning seen in frest. grain fields and frastines, Inthis area principly flowering pergallery words and very news Tee are common. cross railroad, pass smal town Trinidad? Very few clours. 11:07 Large area visible - mostly in shifting agriculture and secondary front belly. approaching Lake Manaqua some hills avered with empletely covered bygran-hom dense we fount, mostly decidirous at this reason. a with consprensing green Large winding we. gallery fred scattered crosses sourse grandy bed yellow cleanings, callle dark water low at this seam. trails, abundant relief loves. some slopes burned off. morail of Tipitaling with a 11:10 Cloudy with some bealing country similar & Rast. savanna, very dry 11:12 Proportion of cleaning becomes looking. along laly some liketivates greater, much pasture with scrub, small ratches field, loven, some very of frest mostly secondary. Last burnt umber born. many wads. nanow strip of bereacous some patcher of sugar care vegetation along show of late. Country, still brilly suddenly Volcano on ferinales 11:19 take on a much dries aspect. is lake has two crates lakes, Some sparse pine frest ob slopes are covered by decichons higher wow hills, hills frest with scattered green mostly in brown a drab they. Crater laker blue, savanna, patcher of Lake Managua muddy gray brown serub or 2 crub Shahi coln 12 sin between volcans and Mataes mostly Loub become juite estensive,

nicaraqua 1958 Nicaragua This is obviously dry cultivaled also strif set crater lake and lave in reason on this stope. Some completely bare trees peninsula. :30 Small volcans south of Ceelra type, very large Thick conical trunks, other of Managua erupling smaller bare species. lots of steam and some ask. Trole of o for Sanfore C. Rica Plain around Mornagua In low hills about 95% mostly cultivated, many of trees are bare, 5 90 bright fields plowed, some fresh green. Low is a feely burned. some in light sandy to color. dry grass. Large cotton One conspicuous area Trees fratly deciderous at this season. of contour farming The country here looker generally nother depleted -- 11.39 landed at managera aerfrat. evorion not of quely type, Plants observed at terminal. however. Lawsonia inermis Two craler laker, calders realypha amentates v. witherian type searcely elevated above Pseuderanthemum caruthersij Titus 18. The atropurpurem surrounding billy plain, heveral sinh-holes a blow-out holes at base of volcano Wholia eyedorach south of Janada. Slopes Merium oleanse of this volcans wooded mile Cyrodon dutylon waith mixed evergreen-desiduony Ficus returns frest, which decomes more Pregnis mores desiduous as it runs out Terminalia catappa onto flatter low ground. Hibiaus schizopetals Isla Japatera covered by Caesalpines pulsherumo desiding, ereally partly voracum variegatum evergeen frest. I ome evidence of Jogsia tennifolia Isthmus bet. Lahr minangar Bougainel es spectables olyseias fruticamo a moraic of savanna and spotters Mangifera indies

Comma 1998 Johnbir 19 18 is some stight develop-Large savannas, strong cledred because of rome went of mangrove. angular patelles of Some small mangove vegetation. respectly very from. patilies in tracky and Country looks evoles. around rinfield. 819 tyrred of to instrument and. 7:15 Randed of Cartagens (fan Marcon ?) (a pipe is ou? 8:53 Froh off for medilin. Somewhat dense, vegetating south of it. covered by day servel. no visibility. Connderable manyour green fred but with many wamps around ligory dry looking cleanings, beely west of artaging over 50% of area, but seems to War fourt with patelos be a Typical shifting cultivation of talk decideous forest trattern, and various stages back of mangrice. of secondary forest. Where recent fouth along was a luming morain of patines of crossed a large very much my cleared by was we and probably to Cauca. ancaria - mobush in various Fresh here probably 75% cremy, stages of sage development much recent bruning, Love patches of taller 8: 7 Course from I to meandering deciderous fores. a layer canal forware course 8 15 homewat more from Covering crossing it & eastward. green except when recently more at intersected by smiller trest green but with man. crewing channels, there bar emergents. possibly natural. 8.50 V refronderantly frest, en Enge fonds of blever some cleaning, especially water with light green along meandering so stren Cloating vegetation, perhaps channels cour flat. thymphalaceae along Country begins to be dissected margins. Som eller freit. and is now entirely forested. 8:03 randscape obscured by hays. no clearing a at all.

22 1843 Colombia Colporbia Very Cittle front city, houses from and cities of role, grandenciely manyed. my leghanded wood Many houdy and towns with restand trees on tope of moders. Lanter slopes a pallownk Percentage of partur of cultivates puters less on Me discend especially bananas. till and, Inewords and facture growthy tangled secondary Alexpression, mostly in more coffee. Hard to tel 1 acture much of at shaded corper from secondary very trin some word, fred leid nie notice of 10.27 in ravines, much well. mostly from 2 acture or some stopes and udge. general landscape grang with abrundant seetted with worded fratches bushy in valley, some covering persone so To on 25 %. patcher of then trusky More and more ands 1. 2-4 words. Francisco, port. Meaning. le cerul 12.3 Much conspiceran Partialize 50% arrowed tocally 10:29 eroun brigh range us vom bley, especially low soil approaching in larger valley, which Wedellin. a mortly deterested Higher Hills around city almost geals and forest or serve all cleaned and recently 10:30 fa I valley almost found some for send. completely cleared from musty parely nine Man 22 - Medellin - Friedo entering Kir Carried, which 10:17 left medellin infurt. 1 berg is very made of. Juzing pattern very noticely medellin. from bills wither and in thing grant the brushy. Ravines generally with trees, these mostly reddid a rain ecce. down now well to a true still wooded only also us T me. shade for coffee. Parhap 10-192 10,35 I wintim of wooded hatches of land in coffee, sest in pasture, some banends. I any increase on higher steeps

1998 Colombia Islandora 24 sigher. Re ed the : is - in good Rice, love. young great too road Rivers here with tour Trails in Typ of most rings. noteles eight same be. Thurst so be here. form cattered examination 10:37 Patches of words with in various stages of regrest confirme white inform 10 3 Vilongy Large clear Perhaps 79 2 active of niver running next west wooded front lad, ma some eleany around to enffre, grand free seconder willings. Kong your through with none good generalay willing one I west. fort com the plants enother village or many 100 without alode. Parties at maller less lear strong. who yellow wan but in ry visibility 1150 Keo ateato - anomores meandering en a your 125 8 1:42 more patches of your frest. muddy were fruitedo. Deny much les est et trigher fourt on flood places, Stitudy. greater part still some cleaning, along wood Ceared. ne ming mostly from city, time large plans entirely sone aring never and bayers. wooded except lower alope. Han, palms in The form Lleaving now mainly in Frest very merid on composition. valley. Testafor only about 70% cleared, becoming tare trees, but very lew. regidly den westward. 11:20 handed at furbos in still -I wanteins very rugged a a not dist strip. much good mortane fined Cultivated plants seen it in to. Volley, cleare, tright green. alocasia macrorrhya ! nochahung" especially along road. much lower now. Frest mother Dieffenbachia maculata Carludorica palmata rundistanted carry rather Colocasia culenta Fachin namon univer. Kather Little coming asonopus compressos here even ing road artocarpus altilis & Many clouds, marbility between

27

1948 Colombia

mar. 23 Rio quito but grillo. Much evasin along

banks. River evidently falling longe sand bain ingred, slumping in steep

I banks, present level 2-3 m. below level of flood

fram.

On flood plan iling rever are many dwellings and clearings. antocarpies altilis very emmon. gustavia / Castilla,

militeling, Musa, and other salte planted you genera. I'm is sandy

I somish gray. along the banks gyneium is common. In alda

sand fars i long low grass from tunged many

Thush planted racky the . Leathered - dry

trees left from proest 3 flood plain. Flood Thain neast brink

extends several miles, then narrows out and

the bank is cut into a higher tenace about

10-15 m. 0 2 west side -s & way flood plais.

The higher terrace is

32

Coloration (clues) r-Combine 35 mas. 23 Loro, sait bank of Rio atrato, alive Gurbos or flood plais tree in tal glowers Justavia superba in axillary congres, common understay tree peras rose-purple dotted in abandoned imagings and with white, staminal around dwellings, planted. mass yellow individual via Theolroma cacao filaments yellow it base, planter. finall tree, carliflowers. Lowflish maron fistally same - on dissected terrace of gravely clay inthers yellow did of (photos) leaves 4, overt, reclining 22 Lamina in age, from a rhizome rare in secondary forest 6 cm. thick 30 cm. long curved upward, sterile. slender understory tree 4 m. Tall; fruit immatus rare in secondary freet dark green, frestile 242 Trichomanes & all seguines brands erect, sterile occasional locally in deep grands woting at tips. shade at lase of tree in secondary treet should 1-2 M. tall, bracks is Cephaelis Tomenton searlet, corollar pale yellow, common in undergrowthy fruit leight blue, blashy. in secondary great! weak strule stems green, seaves with silly sheen, accousing in undergrowth guvenile leaves with purple in secondary frest under surface where surface last green with thight finds raised veins fuit remoting weak showle im. tall. 27 Adrefflera in undergrowth in secondary frest. this me erect; fronds 28 (richmanes & copen of C hast " art Lowy. occasional, terrestrial in secondary frest ascending.

36

40 1958 Colombia

Man. 28 - Guebrada Pietina

3 hm s. If Juilodo

in second growth servicy

frest alms smell stream

31333 Cephae is

very common

3 35 Faramen

3 36 The becasional in undergrowth

many scattered with tall trees remaining from original fresh with the greek with thickets, the ridges and elevated lands more bequally with gleichenia tampler with scattered busher and small trees expecially lespedisin.

12 1947 G-Gmil-10

Rivers

Man 19 - Jugar from Gulde To Condute to the ide of Pangui month to andita east a Kie drie sout of quibro. Kather complet def set. ation immediately clary rivera, acate es cleaning fri 1-2- em pom rever. The primary front is duly green mother with light green and red deal or brownish green. Treasern I awall stream grave reasiona small minitude mine workings Palms common in frest, left when cleanings are made, it least ing. They with planter quilienz Just to elegated when - 4 Edysamine i grain Well south of youto she nea energin cher is considerable insertion with entrenched meandering of small det y tream. : South of Certifician occasional elearing inthe frest; some new, some with seemdary serul.

north of Isthmia west of

Colyente a conspicuous actuary to metirated vallegs in morning north, they word rouland. north of this a very rocky since wooded grown top of weads up the steep alote. Candelide show bight red and Country back of want on peninsula west of whites very nountanous and densely worded. with somewhat ofen Flat valley cultivated Treacher of red- from sand at base of beingty. Wit cleared land with g an east of Mutis in walley. acut this untouched forest. I according down is was teleaned Thirst of court to moth steel and worded. 9 freeze cently stoping areas one cultivates. Where there are no topo Teaching accompanies or

July of Enpire. The

steel beingy

in swampy up viers, in swampy up viers, in searly almost to pribalo. There cleaving matural levers in pribalo is appreciables.

have an understry principally of horards with with with welly of horards were search with her hands

Singing grown in sightly set situation. I work with the secure say, The marries is has presented.

mar. 30 - friibdo 39377 Borojos petinoi

) 0 mg.

eaten mixed with micis and sugar whom ripe order unpresent. 50

John Mon. 70 Tutunando, on

road about quibdo truad medellin

cut-over land

39338 (homel)

Tenestrial in vivo, anim

39 (purque)

utlander acai unsecto.

man El Prince de atrato

Man 10 Polivar untirguia The mountains because corrected de most the coffee be main is shade the coffee bunanas are planted on steep slopes, but most so when and covered by a thin growth of melinia, with abundant evinia sears. The soil is a finde to orange latoral. I the valley above this reveral miles are plantations of the processes on steep slope.

Anthy warrey occord
Bolivan o few mulciabour
its yuntion with Ho
Cauca is a rather by
I hert along the river
with Bursey, etc.
The stopes were are

(antioquia) 1967 Cotontry 53 52 ma . 71 Carmen & atrato 130 (South 26 Som. in a small raine in man. 31 - Lanta Ferena, mean exposure of what estrante summit of highway bet. 76001 be a extentic court. The a new Medellin land Kis Negro not replan to be a lithosotic Brushy over-grazed y contatoro, much model slopes and low thickets Dr. Wegsavely found a francity Time to and m leaves fleshy dististions, 39340 Epidendum - flowers flesh- finh. tersestive growthat leaves somewhat 2 41 nerteragranadinas crispate, blowers yellow-green, in moint banks at goot - fruit vermillion, pleaky. 42 of cliffys, shaded witches brown on Mertera francousis (3934) on moist sander in sun flowers white 43 Penneria common so in low brush prostrate, front occasional in low cliff Gright blive, fleshy stander spansely fram 45 Vicenium erect should 3.5m tag reasimal tracts primered red corollas pale shell fund, - fruits reddish immature) sumb, petas rose parifile. 16 melostry) 47 Viola flower with fra lavendes with darlipuble timeson recasional erwer petals. 49 Spidendrum occasional flower funds to Junping. Lail eines on lower with

1958 Colombia flower white reaves 39350 Purena Think i'm tal, leaves or casional 51 Begania the glancous beneath, Accasiona 14 galium hyporapium - flower rose fints. comming in ourses, - Liffing selful 2 miles 53 Vaccinium tracts were ned corollar recasional white white tips. 54 Girdendrum formers range. recount tonestial 800 m. March 30 - El Piñon de atrato, upper Rio atrato consteep brushy cut banks above hoad stem untranched 1.3 mm shrub 1-2 mital. reasimal 36 Rondeletia flower white. alrundant (2001) H H-1 march 11 - 21 Poblado. 15 40 m. suburt of Wederlin rounded should 1.5 m. 57 Jatrophy latex somewhat watery. cultivated as ornamental

Certanbia 1997 Gentin (Continues) 60 sepals dull greenish; road cut at edge of semb alightly gibbous, pelale bronze yellow with maron lines, column mairon Beaver sub-flerly, he up on stilt notes above from 67 Kubus arching shoul extension, flowers white flushed road side in secondary with pentrish scrub, very abundant Justy shoul + 2.5° m. .8 Endig lanata H.B.K tall flowers white. occasional in secondary seril along wood aromatic shrub 3 m, tal rather 69 Lepechinia salvifolia (HB. K.) Epling weak, caly larle common in roadside sent blue toollar light blue shoul 1-1.5 m tall flowers 70 Cestrum pale geen with black roadside semb common in climbing, flowers 4 76 Muhlenbechia white, fruit turning roadsidy reddish, immature. soil black, badly ender april 4 - tot of pass between lenjo and the Chia in This overgraved subparamo scrub on steel welry slope, compact should rome to I. 72 Palicoures Thypse green, flowers white, rife very common fruit mange. should im. tall, forwers white. 73 Micmia occasional 74 rumbel) wordy at saw common flowers indigo 75 Morrina Raleifelie L. V. S. det Wie leck 1724

up 5 - they I'm barto ! verra. havana go of lie in far donly from soil, some it plowed other parcie green, som marshy spots sum rows of Encalyptus. south of how the having cheed by clouds. The mountain south and somewhat wast are largely cleared but with no ger and steels sirty wooded the woods . Ih some white Eccropis. Lower slopes green and with scattered trees, some nather proply worded, Toward Furagaings the disserted land about 2423 cleared it neer. Below Fungasuga 1 Grad alluva fan, runcated below, grassy tout searcely year, fresting braden ended by get covered by & savana theoper elope the cleared and bright your rome brushy some patches of wood. area east o come largely cleared but industry. lugher mountain reofer larger wooded area around first vollage mode denuded, around second itso.

good four on slopes of strang udge franching 13 reared, love that most, church except raving, fortunal mostly pastres and warred seemlary bus and words. typica strifting agriculture pattern. from stopes bright yellow green, others still some reddish from woil showing brough streams muddy and fratelies of erosion very endert, estimally on ridges sleeper slopes and lugler ridgly in distance to east worked. Lengthyle pealer below course of tieted bedded finhish well my on steel largely fore scarf along striky francelle will course, to the southward splitting into a number of searly, very rough country but mostly clear. valleyts east of it largely now wer a very muldy river which cuts through the bedded ridge running southwestward River margins and revine model. Otherwise country is mostly

1457 Edwalta

cleared and with a nather dry aspect, Thing grany Very Little words left even in ridges to last. dome patelles in vains stages of regrowth along course, Land along eveny morely very dissected. The bigles mountains, cleaned grassy, enoded, words in some armes but becoming career southward. Dissection more extreme southward. Slopes mostly -gelerw-green, bottom of curyons mostly worded. Country extremely rough. Ridges tending to be ended on tops. Southward brushy regrowth in idases more abundant, also erosin much more apparent repres then becomes somewhat togs drien, cen and less green, thream beds there very water, water not muddy title water. Fruit dry aspect except for yellow trately of show word which may and my cover slopes and valley and ravine bottoms. Then complicated dissection in low relief very my may with wood in arines. Higher

Rivers

Adat terraces partly attently secretly activity of secret secret

Volly from - ledy gray-hour alluvial soil pasture and cultivation Magdalena - muddy lived with trees - legenminous.

Tenaces - raname with dry gives, north leguninous trees I should, some leaves.

Years graged off to root.

Low gray druck common.

Grew soundby word in

light tenace more and large trees and taller is russ.

Randia Jusquino Lacia.

abundant locally a woodland tres to 4-5 m.

sout between them. Hells to west covered by a semb-brest a woodland with eroded wear with scattered small bushes red soil freduce and frest in valley battoms, also serve baranas very locally. Steeper e. slopes grassy and with sparse semil. gentler slopes with sent swoodland, a few valor tren Woods thick in ranner. Ward becomes Miche and greener higher up to top of first diseleted Duck of this, descrited country with brushy rosedland and patilos of savarra. Tren tallon and close together in valley bottom's and ravine Ja, 7 15m. Talley of Palermo flat and cultivator and in pastice. scarps surrounding it very rolly. Woodland on in fracing stokes, surume in others scattered tree on rally floor small plantation of tech eaplings below true.

photos of Halanno Valley Cot. + B = w. , thow. - of woordlang Kirlys bet l'alerns , may z had. pumbhell low w. roll 2 5 m arl 3. On Magdalana side T ridge robd, o 4 bow. disserted because at foot of scarle 4 ked. 5 fores. of sind and disturbed woodland m engoled alluvium. Hlat savanna in middle Leman - 5 be wi 5 hod. more open discarranna on middle terrace 5 had 8 bow. may talona K. from neiva bridge 3 4 hood - b - w. On the west side of the Magdaleng the allura plain stopes gently my in a series of all defined terraces, at least I in number w reprise me expecially dissected into rounded bills and xow recas to scarles generally diesected into rounded dillo. The way plain itself is very feat, mostly cultivated in in grass. along to river on each side is a fring of nees. The river has ample water at this time and is rather muddy, but the

tributarie, entering it in this area are in low water and very ciras. The lower terraces are sparrely regulated englit in the smallow raving and watercourses, while there is a "gallery serve" The general vegetation is a sparse to dense them savanna, with Kandia aculcula ve ef, Prosopio n dealing Cereur meruniang wel alf. and a frew broad-leafed trees, they ill small not over 4-5 m at most, groched. Angular patches of Trush are interspersed with the badly over grazes dry gransland they a reflecte of andropogon (!) occurring in pratches and drying dark dul red tras not been especially grazed. , as the higher Growind is reached the gran seems to have suffered much less grazing und the trees are much closer together generally featpropostion of larger-leafed trees, but leaves rather considery

E Gentin

a bunch grass. probably

Cyly 5 - by can neina to eastern slope of Cordiller Central appears, nother fare from road eart of King Maglatene gliacidia and Crythring common in bottom - tando. to homest terroce cultivated on fright frants of it down & zans with some orbish. Example of next sandstone grave with scattered trees. Large trees abundant along streams. 13 road beald 8 km. m. neing framalies Arw. well & and took several lood. of dissected terras with enosien remains. low thom turk, nearly leafless at this une. some casti grass enter to not. Dedr of sanditor gently diffing earliered alkuntium len top. Lut by shallow clean atream. Then sent and their savanna m along streams.

androfrogon of effectly not enter by stock. The grass between dunches of this eater to ground. han fruit in toads Murraching Tell the terrace is much more dissected a team such no general vegetation mostly green at ten time, locally meanly have Large Trees and bander gentales in walley bed. Had shower! Broad gransy terrace noth of river voilly. mayely andrawgen. some cult. putches. ten treez except in small ravines. four hills to east graced by secret frest or woodland. holp ravines mostly wooded, dry, some slops bare, weeky, gransy these very aged, thousand these grand gravel, Ine filds Thomas

l'amoun maromum. a Eicher hills with carring Broad flat valley largely out. Gallery frest at my small boulders, I have frest in side ravines, semideciderous mts. to east mostly bare. Steep sources of bedded noch wooded ~ grany slopes at rare. forme lonall rilges of gray mudstene. Bedder trate randstone whale These but hell, mainly somet covered, some y isin a heat green walley, cost cult and with large rees Bananas. Kich pastures in bottom. guadre Coils Epiphytes, parget trees seem to la unacordium.

Combio

17ct. Harays and letts, m.of grassy plains, 2 hos finishing welk; of grazed stoperan wooded raving about 8 6460 of this area, serub frest. grazed stopes, etc. This is a rea of deeply dissected

red or yerrowsk allumium. first several frames on Ked not 4 report 1 154 w.

Cacas men Teco, with bananas, shaded by rything on 2 st alluvium along stream. Leibas with both shope tunks.

Much Karelia in team remb s. of Terro. mneven 1 - 2. 7 m. tall to dense. soils orange ... gravelly. south of here very rostry. frassy plan so The much less rocky than that worth, Fine gray solly so soil with some repoles. Ravine with an abundance of earle boulders, wasted out of lower layers.

a murber of bod achroms and born of creti, etc. it s. edge of grassy of in also of eraded liver & with. bow. from moring in at current - everin remaints.

Defensa de los suelos

Los colombianos, como lo ha annimo el eminente botánico F. R. Fosberg, quien se propone tudiar la degradación de la flora esponiánea en nuestro territorio, hemos dispidado todas las posibilidades de desarrallo de los recursos naturales. No hemos tenido, hasta el momento, sentido alguno de su conservación y de su horemento, como si en nada nos preocuparan las necesidades futuras del erecimiento nacional. Y como si no nos interesaran, además, los perjuiclos de todo orden derivados de la pérdida, cada vez más creciente, de los recursos actuales.

El indice más grave de esa dila-pidación es el abandono poco me-nos que absoluto en que se halla el suelo colombiano. La despoblación forestal practicada sin tasa ni medida, y desde lucgo sin sujeción a ninguna norma técnica, no sólo ha hecho impusible la rehabilitación indispensable de las reservas y de los recursos forestales, sino que ha dejudo a los suelos expuestos a todos los factores determinantes de la erosión. Las tieeras aptas para la agricultura, en estus condiciones, se han debilitado y empobreeldo sistemáticamente.

Se trata, en verdad, de una hárbara empresa contra la agricultura, en particular, y contra la economia del pais, en general, tanto más abrumadora el se considera que se la ha practicado tradicionalmente, sin que los planes científicos para defensa de las suelos ni los programas de instrucción a los amigos de las quemas y talas hayan surtido efecto positivo alguno. En los terminos científicos citados por el ductor Fosberg, ese inclemente fanómeno es lo que ha ocasionado una degradación progresiva de la llamada flora espontánea, con la consigniente destrucción de suclos aptos y su inhabilitación permanente para fines agricolas.

sed a yellowish alluming. first south on growing plain Ked well 4 Cacas muzzo languas leibas "Planadas", pide Saluzar Santos. - et trunks. es de la region. Much Reperimende le suficiente a los Mobernantes nacionales, quiens par la subestimación de les factores so-ciológicos que han influido en él. serul J. 'En forma descarnada, sin ropale meren literacio de minguna especie, el pro-bierta del Tobras es inseción del Estado, manifestada a través de las to dense. necesidades que el pueblo alimengravelly Anade el duetor Parra que para volver a poner al hombre en em-South of lima produzea de nuevo todo cuan-Jassy to es capaz de producir, se requiere que el Estado interrenga y aynmuch less de decididamente. "Y este no seria un gasto publico, ni una limasas misericovinosa, seria la mejor de las inversiones publicas, porque todos, hombres y tierras le devolverian a north, soil with Colombia con dividendos altos el dinero que a cllos se destine" Letter. Va CRUZADA PERMANENTE La campana de los tolimentes paavundanc ra que se stienda de inmediato a su problema confinanci cada rez boulders con mayor decision. El puento lo ha recibido con muestras de sincelower lang Le to entusiasmo y està brindando por medio de cartas y de telegramas un creclente respaldo a aris mantea munder nedores. La campana fue abierla por el periodico Tribuna" desnucis de una serie de llamamientos al giand former of burne is a los hambres representas. eug of also of ended limit is with. bow. from money in it

incom - erosin remains.

The vacceyof the Magdalina nontreast of nervo is more complex than to the west. The the along the river is wide and made upod To F slightly sufferent levels. This is sinosly cultinated nin payme; but there is some Trang trust and rocky my vanna. he ment level is a by at stoping very I am apparently but in the main timace 1 - trame, a number of wind, how westward a sole to mandaling. ne man terrace is it wout will and is I would you white bedded redimentary formation that dist very gently eastward a scarp is rather about The life int bed rems warry sifferently and large number of jutage errem remaints vecus scong with rounded hills formed by a week deposit of gravely

Colored-12

1959 Golding

13

first several frames on Ked not 4 whomat is bot w.

Cocas men Teclo, with baranas, shaded y mythrina. In heat Cerbas with bottle those trunks. Much Ranglia in them send s. of Terro. mneven 1-25 m. tall July to dense. soils crange re. gravelly. south of here very roomy. grassy plan so of to so much less welry than that north, Fine gray with the soil with soil of the and setbles. Rame with in abundance of large boulder, was en to lower layers. a number of bodachous and between of crete, etc. it s. edge of grasy also of enoded limit - with. bow from morning an at

cucan - erosin remains.

so very rocky. when There is word vegetation it is dense friming a woodland or sent just becoming less thony, in general is inghe, revely an reached. Irons of grass and rate savanna are common. averything is very much overgrazed. The densely worded with large trees, mostly eleaned or planted to cause under large rrything treen Bananas und deep grass such is guinea grass common. northeastward owned Baraya these valleys an leeper as the layer of allunium is much tricken near The wave of the intillers The fronthills are mistly covered by a nather dense somet frest, probably evergreen, it least very green of this time. some areas here we grassy or with scattered

Ex-Grabaa

Colombia MFB Colombia 86 morely Carpalum of. Cecopia over almost off, delatata and Panisum al of brigher mountain maximum, toil rather east of figants. red. Some gralms lest Landelide sears occurred in clavings. topics I lew crewy legin will bear. I have with one. stope along course quadra potel at distance) just after crossing, but 1027 Left Florencia very few. Clearings extend down intive area visible Kio Ortegraza and In s. and w. of course denely 1-2 km. in either side, in and evenly worded. To grass but some weeky ? east worded also but serubly regrowty. some cleanings. Kiver muddy. tome ox- lows Thomas yearing in the much cleaning to about forest I few somal (orig), reallered cleaning along stream 2 carings from their in 12 entrafic This sucre and a mairow string along If fragaching Florence wer, much active love stope have many ceaning and burning clarings possely > t forma on area in valey. Tom to the inundated win 11-10 prasy, some in various west way extends stages of regretly. your severebat. Tower lown perhaps 2) poto to. Fred with fairly leves cleaved. Flut land it candy, many braken on Lort of mts. for several earty many energent miles invent & lorencing I some love, many in mostly cleared. young foliage, Viv the extremely 11.15 meandering below Florenia. praiderable curreles cloud. Thounting yours and Kie agnela visible in gradua conspisuous. distance a west. grass around Ilnancia hew cleanings a me very green - around aufront

Columbia 1998 Colombia 88 setien vanes. Occasiona sproad Tres Esquero frink flowered emergent tras. much swamp unt had water east of the Integral a few live only. 12:19 an elongat are of langles gent above Tree infuria. Many paims. low weg tation that looks ties a wind- thrown strip, Tres Esquinas. Li unte 11:13 traitly regrown. I alm or slightly bug your. still common but less left Tres Esquinas so tran before. I me cleaning on slightly elevated ground mount interespent, more common 1 1- 1-1 Ris Caqueta far in distance The sy wiras (r photos) 17:22 many falms in tract To east. Bare emergents more common 1 me immedated land forme with white flowers, very near his agreets in each many crown, side, but not much. 12.23. They and light punts wer scattered cranny to 5 now very comme probably short testang down wer: same thing. (3 photos) 17:14 Ro Carneta ben seast to come (22) Level a lavender flowed 1: again Crossed it. Very muddy. emergent reasons The frest in is low, on home to fine stands of places inundated, crossed Show Puerts Legingans. Matting stry, not long, lothing. Eurge cleared area area area. by channels is a treams had meanter through it. 122 Crosses river again I few seater (small claring , town and air stry, small village, along v shood, at a from air strip) 1213 swampy were west were lake on male. Rained most of time we were east of it clearing is is vent on ground. Tall forest in right from which is highen. airstry in all directions. 17.7 Morting (next) thy most cloudy temperatury toes away from me rather high, humidity high little breeze. uniform but apparently the compo-

1967 Colombia Coloralia gass rather his enc 7.5: Atilicannolisely comme tending to be dry. Corrid rate in with money. erriem. 2.7 Still soms. Dry low bills, grany but Many for melow - your very overgrazed, words Tres in frest some white Ceretina. Broad valley of rives him Caungs string a cong a algeria, tomerngates mule - and against mounts ... rice much frant une a some no more eleany, white and below carponlegs. ceretia commen in ranne Lernes dry, quelies. Veg taling on cresto much mt cleared 43 the way to lower and fiver texters lope in listance. - ran en 2 to fee. Extensive terraces will Many cleaning. with some cultivation, some Centria very aroundant. saramous, wires willed crossed a valley that is some often your field. perhaps 1/3- 2/4 cleaner, this Ly Marrow galley frest along in west slope. Fower west is Magdalena. slote 7590 eleaned, some Terrace to east mortly steeler slopes and remis thru swame. fore me left. Higher server gry ger mostly intact along vives. Moruming was a got many her is city. a farm me up. Mys farms connected Juy area in Magdalers er 1 19 mule rais. Vulley extends out least to would treast or Julyon Keng alme gargon. clearing is perhaps 8 9 1 in Left Peiva. outer udges of and wenter. storme vice along me, tune ones still freated. out savanna and world franks mostly on ridges. hills come fractically Notes alow sign of times on eas side over-grazing above neiva. Tierahuera. In to there almost entirely deal

1954 Colombin Colombia 95 Juntry brusched, much Where old surface of temas is preserved her are no greens, some words, trees, only grass. Karmes mostly in valley and have Tues, stepen either nowing. tribe adges paralle ? savanna a jovodland. course about 131's tring Iffruit Baraya some areas covered by turn model. hathward ma fred some ended from. une ay - that grassy walley Endertaiens extend moth almost with scattered tres Catrery then baredy shows bay grassy ritge enoded fills from their mold. parallel with course, wordy vegetation only That yours gently i ravine bottoms. sloping grassy wents Noto west, of alrera Valle with scrittered trees on are almost completely inthe side ... it, paters denuded except for many vegetation in conyon and of words. ravine bottom. (lidges head of valley work unday Nod yerodd. ills become slightly greener. and fother walleys nearly considerably worded top at bode server, work but with many forms regitation vely in saven to the probably much coffee. 3.42 I'm flat wenty wastry Lower Notes langely gravey. Thin grows, he along streams put thay my comes western arms red of the some of it is 3.0 6 and everes course. leader and a ery quest south Jemmya. Icomo 50 Timola. Journal . Parti Twen mit I made meandering grassy sloper much serve I all thorotate colo. in from freed I alley rather year, very to the Lankomardo in destano wordin vegetation Typer front of ralloy of some gam. much jorest around it. nearer sleps langely deared Hills he thing y assor or with this second growth. 714 Visuality loss.

- Porte 1957 Colyman 96 Jan 9 What Charles & Comment Vinge tills is distance with in Lowed freed is mall in broken woods processes so some wo much blacky Cartations mue, masters Elvan in the world in that Octor Imagaruga a cay It is not not end I wild strong gracy tendes were frank about that find Thing gratelle of more a Lift in places long. forth overther fully on grany zlopes in during running our coffee and facture mocal. is the Magdalen the Shell transy a ofer with many reve close of but have small restreed new heat from navine. The ways tend round forest. ign slopes in fort I be worded, be principal still dansely words most. 1- 12 france brouds, which and a entirely arrain Many I having farms throughout forms the lineity of they aren tyres her a very just and a large patch - eree ent har of them on connected frest in west sloped ty, words mostly by weeks rim of mounts. the general aspect is given tage large worket with dank wholish interes down end of laboura Factories a rever is. reliment the feether a green hields, zone - are me more lies the manner. - wit forms baccom forms tills boadly bound one little vegetation except them in the way were allowed in minutes charles 15 Lucia 7 - La Marie - Tomby 408 Techs. Kower Cercelystus agent come more where or northward whether welcom become to strong Freedown of Teeles very que remnants of regions fortil - marmer from supering They alotal grassy or recently fourner.

Colormone Colomber 136,4 101 1 ()() inthe scallend him felther Earl 9 - fleght parminamente or slope, mortly grave, in much it plans alogies and ridges while ant of terrace 117 2 heletoning considerable web showing ento marin ridge. Rodges, especially ended rangor well an The player was very stale Lender - of Bills Lecrose of revent revenue With my ye i lang front of the terrain wat if attection stormer willy general vicinity to a . frest abundant brouder is elepred but less and storing, were service them less as we leave B. B. in gran china de ant of cleared area is some protection of front, get growing back & Cecoping. To be in cheared and other trees - much as (The state of the . sing cleared or has worth Clarge and of moderate retief worth partition of letter i mente le il any has largely been light be lind. wording regulation and definish places and morning the lying about the the net soil completely removed ephysican very mixed many light grach, few enablitely from molges and traple afect. wing printers to velded I francat the time! seemling his Logarnest - in cleaning scattered quero unes much of it in - In warran stout of symuly. Tos mens, engress a belu-Villy land. Chanings when of words, all enous, but in alther plant amount alyun much but eleans her foramora is with and aloper have selver recent Maidel - million showing - it into completely closured and work land to the ty country rather comply. at conference with france hope of andore - I every millade "leave. I met any general reddent but righty Travel born & Terrais

Polombia Combine / - =7 102 103 floating vegetation, & are where ladly ended. cans shannels, mundely The and more works that reparates from my en we go ward toward in Lalera Tomad with west when by several era of involve stight light trom of seron propertion ground mudeled the seems by andreds and proceed cleared earl of Borasdel very rapidly is after Morania about this expecially. eleaning mostly forest, bew dearing wer a treatand much braided, with a was lined on both side . Extensive and bour and by eleanings Then the -sandy channel interval & france willeter. And Entre som mile weil of ien much francest. River francis and and little cleaning for some low wet grandent, a while then - british muddy strangels and cleaned alrifus hondy . I me apprendly some stropheten trilly sedim. Landy around, elean a almost clear of francis I hat may to some reduced inly protes. Thurt forest low her grass and - williams of paleles very megulas. foully of fimily out cleaning is started para do maza rather on founds, long seals bash- like aspect. Amal They with many thell juil south of lake emergent trees, tall, canother some Grany some worder Coppeaning take no of tentable with will many various many bugky skellow Air Maglaleva - dense tall tabelinas. Etcher of werry freed. Trame of emergency at hear & be decidence are bar. This invindates forest and for places total or said ord nice. ondere bull inside abo Worley in numerous Rates - Francy Land around Wash green islands of probably

40147 Colomban (Magdelonn) april 9 - 8 lem & of a open dry savdund 39405 mismus accommo Byraming Cassifolia commonest should 07 Pomilos occasional in AJ mel. very common & 09 Countelle americana very comman 10 (Miers det. A Gentry 1974 treasimo 11 Lenjania i casing 17 (nul) common

116 1958 Gelentin

april 10 - I nom Changeann favanna with gallery fresty along abolition watereouses a sollwest - mt 2 land to surround by planted the 1= m pain - nort Taleman porting many betome with ellow flowers edges of innundable and - The holmest some the title May was see for for a street would pends and " small early much of it has been burned; is a morain of watcher of decidence or - egm deciderons former, other mass, meandering is it is channels, mortlyday, ands parties of servanny I'mds have in whater your greating regetation through this meanders the Kin Cosan wing muddy title or no current, . unface somewhat below bunks. Wed of the is a morais of deciduous freed and saranny, may more freely than savanna but cleaning and burning going on my in this first. The larger trees we arrotty have some newly leaded out, I wer

1055 Extrabia Colembia 123 -the terrace is badly thate de cropias top. form patienes all of the ended. . now roads low than appear otapes oravin wale m my but worlly was built. In one of tables Tamalamague ing love 4 Ween Topen. an grassiands, patiles Calleria alotes of more in enter and some fralm contain mention in canaly a litter of 11.20 tole come and a more of hord, seriel The stry early emelinger. and chaning between is . Leathers toll Trues there remaining from front - A Andread Claration of They from of the frields that appeared to be green pemb of the father heart for the from the air are frields of fre thomas a bother on manitrat that are oversoon how the most, with a growth of weeky I white from he cause of strubs, wine and trents I was though. 1-2 m. Tall - reveral legumes Strywood heart extending Bruking strother arrivarelmen in the front of the mit toward The perposes, Tri impetta, - E. to fire may doctone in the When allowed to remain region of againetie - Si glove for a tim this develops unto or phrasently beginnerent - etreum and were about, 3 m. tal -bottom-lands inthomas in the region of Costilla of relaty, wing, and simpossible there seem to be rolly dignaled y penetrate in bont without and largely changed to sent instent and disagreeable labor and savaran excell for the with marketer in places immediale banks of the streams this is broken down and wiss would Wenselves, which may retain by trails made on cattle. a narrow strip of trees. This area is of low rounded only of this the gentle stops hills. Then than freat is it near the my have mostly appears from the air. Lowever, thingran liver from mb.

- prates by grented sand.

there large areas of reciding

Long higher sandwally has brigher sandwally mostly clerusted bright was the server of a sith prostly clerusted bright and by a sith prostly clerusted bright and by a sith prostly clerusted them by a standing.

Celt El Burg 12 50 Worded strips mostly are - avines or froken growing. Many of aller trees baw. probably Recha ieus contheward are loved areas of freel, juite thick, protately semi deciduras but only tallest trees bare now Partially cleared. Some areas of grass with - that if freit. is I of a end of Lagadi Japatos. then of morani of potation of woods, ass, cleaning, tow worded hills " Amning going on cretively. In patches of typical savanna, and all stages between frest and savanno passand intermediate stage. - this is that progenous werein Time River which grassland and polley must . . + tll mis ential is diturne woodled except, don is which and to in part obare and evaled. has relatively intent

19 - Colombia Colombia 129 stored terrore on more in your by probleman " (caring, in centered with some and - me marken parelles of very trees lord rearly front My revanno. an a word eloper Commenter of Ceran town range of the form Many queen fulls novada theney wooded. rename partiles noras remember of mellon of clearings, fraile-lind extensive and of coming and decidious woodland. your sparse, willy traveallural sloper and - sally wordland, Indiforthills on both side in here less so tension inverted by deciding condend. in your regular clopes parter wooded. inamita fine greener woods your nueva. along Blis Cosas Much ofen by pasture and Tenzecq. Eline tim. here and Budilla receiver forest along in Cora a duly of -part land, otherwise varying to woodland, harle-land Then woodland, and savanne. Worthy rathe, in our large become may Then. Many farge spreading wooded. Wildle sloper their I'm with suites towner I range on west judy very compres mostly contract by trans respect of low range serve frest in right of come very dry, from free on the valley a most all trees bare. flow is almost entirely Eneral vegetation a very seril woodland, wo bably dery thorn bush with few -through, a few cleaning green treis except along near war of just in both , from milleys, in where, redes corn met . they . how trees my lings but green but Kerbrokes /307 hos excel reparated. The her prema conny when - when of mile in east Workland veriable about it climed, in overt mention palchy and freenish, parke more, is not leaved.

in worken knot at int. The rook is hole yellowish. ahead is a working our unning a golfoldmaracailo Except for live, which has a sty of them - prest, the savanna is now very spanse, but quite uneven dense to westward. yould now centering be classified as desert. Inm word Ene Tela westerned. Cordillers of topes Cajery ery day lower marts laure, with sentlered uneven - bush tigher trails - rauly well regetated with whit affear to be a thorn soral or buch which seems to be general on will area & sarly except or orlogan and craided buy watercome, which as Thanky bone Ferring de Cocinas well wooded with thorn bush is woodland . , early leaflers. many anoneous ieres expant

in pouts to gethe dominant bedton

ingest mather than the liver

Two motion - anous of This.

dissected winter

ranges of this.

of the regetation - I small receive

rowning ear on west - now

1 15 7

1953 Colombia

and centered showing of small trees, all loave with mostly morth of siens of

directly west. over all most

from and towny

with coast applears, from

apparently very shallow layous.

mangrove swamps, I least

earl of Patris tondo there very

Large area southeast of freshis

smooth and flat, instately

ingher yound immediately

Lang bour called El datete on may have mangrove swamps

on said sid but there offers to be somewhat deciders. Talt flats? on south red

righer ground with thorn savanna in northwest,

manger france france

1967 Col milica Folombra 5 29 bon a felat any menty 11 - 62 inco. Cleared, frailly planted Inbully banenas (2), they a many imiderable cleaned waited reasonably fred did, dans around Dibulla, partly cleared, brach of some is west justibly low which are steel fromtes and marely, · 2lopes The isastal area here is Mrs. extension cleaning men mouth of large mostly open and quite green, muy, issuing from a josetly marshy, considerable canyon, their more treat fout but cleaning and cleaned land, nother burning going or, some nerow crastal terras -alterday parture. Heat ecitainly may generally ava, forme low brilling land muether 's in wide. ern wrodes hell flag another river walkey and extensive cleaning ferented land, swamp, low dronder terrase west ! will with semi decidion fact, of they fartly steamed ther considerable reasonably amother stream, they clevel gently cloping mested the land this ment mostly coast becomes about evergreen except tallest trees. again and wooded to the -me i cared and near work - Mare. forme cleanings growing back to drush in flatly places, and hau a large way with closes marrow striam valley. filad lund along six thus of cate fan frandi geing her the crast fremmer The mountain, out for wither about densely This wast are extremely worded mountain slopes maged and devely forth an abundance of freted i crests of wasts large Tabebuis in flower, molger. Frei on Verert 1730 and greenish while (Cuips !! is alwayed, where montan There slopes seem undistable night down is sea

1853 Colombia

west of the enjulle of spect becomes gradually dryer. Jem clearing of head of lays. There ca coastal bluffer and bearland infully charge to a day sout decidences send or there bush which : consumer the reveral beautiful bays, tigher my untin stopes still traverveller front but my along 1000 m, 1 -2 mentiat med, My want is very steep and has low word ent out this aspect direct Santa Marta is approached want out chiffer are almost white. Soil now is red. Back of Santa Marta the realized is largely classed some throw bush, "ills send Julley south of Lanta Marte. many tries. Hills out fred or remel, sem slopes Lun. allunial stopes above

in strip shows than frest,

flat, routh of when

coast turns west in bananas.

for lover spus of my-

small part cleared,

the Cantblan as for an on can ser

1997 Colombia Colombia 145 · ollowing the coast soully-The Land to the east of the extreme and of the entrance westward, less cleaning, seem completely love - 200me nather low relief. - thering sports of recions landward becoming ensier, taining against Gradually ver gring. the gray. bowh of the sent Then great trake of reeds outh some every, I oppear morro formera - 1 weigh areas That wave sweet completely. wh this projecting part die partly wooded with fairly good during sterns reavant of Bananguella decidences frest. well is flat land with There some flat areas that an eleaned, with a spale deciderens send forest and -buff and, and aren of woodland, wortly law now. some selief with secidences ' - liveen Parringfuller and solidad auful is a similar forest and serul from . more flat aleased land, vegetation but much sparse narra green gallery frest more scrubby and disturbed, or serul along dry watercome, with a metunk of con putting some of it savanna, som mand a morain of decideres sent fruit and just dry grass. - south of cleved land. seteral much of this like form, when with decidnon treen cleared for cultivation and frest, with intervening is in various stages of reprosith. cleared flat land. 11:45 fest Damanquella on Contagenor going or in the marches Sam fattern of various stages. of frest that are left, from of regeneration of sembland ly the other rate of cleaning condition of overgrazing west of Ban anguille as swith of foledal. The seen for exceeds that of regrowth. 1701 leving or emplying seems to be less over grazing; unto de la galora - salt pans al somewhat more land on east rick of point. chared for agriculture.

116 15 Colombia

I well of front sorry frain deciders. Coenaga del Totumo - a shallow very complicated lagorn with, some slight mangere developmont, othering to sa, toutes West of Junto de la Galors a very striking parallel - series of low curving south and inward. around cienaga "to prest land is cleared and overgraped the rough land with decidency words being cleared and bruned, 17:19 a small crater-like grand of an extensive salt glad extending back from the point. Turned unland al of the area has much the same them of cleared foliat parture and moodid bill, being cleared and tuned mand there care more und more govern trees and bushes, a her iranance blanted here my there in ranner Many palms reattered to early in the frastier Circles over he are notheast of Carlagena. Leveral small reservoirs, country generally very overgrazed. 1714 Janto Catalino 1" feres visible at me time from

plane at 17 90 alt., man mar

in waitly green paims and have common, going intend in more, become ken onen but there we war galling fred along streams and rowner, know from surning is so thick that windlety in from any pattles of palm savanny in Tolice of grand und without trees in to a retire ingh range of first, worder somewhat ilong the lot of man redges and warm the alter with tall Lovest, semi-decidentes decidente many halms in love parts cleared stoper-mortly send wered. serul decidium. 25mm from and planted to smelling or in parture. Tollowed this upland sexthward Is get lower and mue denuded, very worky. Country to east is brilly and very much demided. " - diving tind to be wooded and from what wood there is or recopies is dividuous. Anceleja more mothand northwest, Vast zavanna and grandands. .. me polichy of simily seems growth,

isposally on brilly areas.

Inote so thick that there is no

is cleared, mostly evergraged and civered by a thin low brush, from second growth wood on example between the terrace around 7 inhaces and the Contragers plain Cartagers plain clearly and overgraged, some areas of creen't decidions, wood land. Mostly grans, Ess serul, and ravanna.

Time by con to melaco -Lock of hell new Contaging on payor gran hour, darles new surface horse it the low flats are black to a considerable depth, appear very feetels. In rolling ground travaidate of the example is ground boun to dark from the suites me subsoil gray - train bying on a dense sami constituted clay, for the plants work much yden. by escayment is of out limester. The sort on topis a don't chestnut brown or closedate drown to moist.

Cartagena - most of the created trees here are diseased, characterized by extreme shortening of leaver, then death

in counce I am I of several heclares meny lotu coner 1-3 in trigh, with amiserable itree. with craters in then inthe from which slowly buller and orger a gray Line mud and a certain comment of an optories open The mud energles int, polygon with desireation mostly have of venetation The continue of a seelyle. I my friend arrown int with Brownelie in grind.

like pluntains between in att water of way the certain from activity of suffering from several em. to about 1 m., mostly list her seem to issue from a very marrow throat with a fole to 25 m. by me encountering

resistance. The mud is gray, taster very slightly all saling, is course enough so that the particles are felt between The weth. after in promise air the surface turns musty brown, but not rapidly. Onthe surfrace of one of the protes was a consular patch of a howning oil like material. I'm of the total people said that at times the production of med was much greater, especially during the night, and that the amount of our onthe surface was at limes much greater, also. He raid, also, that there were other areas of these notions The mud is from enough to walk on soon after emission. the temperature is very -alightly below body temperature. as judger by feeling several of the more active wools. fing of the craters, have a distinct rim, others an merely rounded on top. The comes 3 m. high are compound ones and do not stand that high

Colombia

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reparalely. The character of the sloper varies from straight and very low to definitely tending to be hypertrolie.

aller 11 - " tagen & Bananguella vo Furbaco I trolographed mud volcanor from air Unable to locate any me, except possibly no small fratch situated in a depression on to for 9 low till som detend mit east of main are The main area is definitely on a somewhat dissected terrace.

Cast of Turbaco the country is brilly, largely burned over, covered in secondary dicidnous serul es serul forest in vouver stages of regeneration.

rproaching Repelon there is - some level cultivated land very dry more, overgrand partures, and some -warning with green trees. rant of this is a red complex of later and fronds and, reducally floor of land. formi green floating vegetaling

forming large ! ngs festoms

1957 Entimolia

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this savanner butned wer and over grand hills and flat, & peterson hills and speaking freaking with Freen trees, there lugger and speaking. Excally months of Sabanalanga similar places.

I haying even more intense cart of province and speaking area and northward to foldard.

Cignil 13 - drive went of Paranquella cordio selastona selago much used as street tree is Darranguel cile Delinia sono cassi on I corciner common. Il med flowered and an orange flowered form of Endin sel-usterna Pritchardin paerlies Calotropus is common cuz a weed around voilskints of city. I settler has not Here very recent clearing and no grazing (or road II I muito Colombia. The vegeti-Times a soul great of bare trees up to um. toll.

1698 Chambin

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Con.

a spiny lithacellobum at a vel aff, he found but rand dange Career, in rose.

Krad to Pors de Cenyas much industry, expecially on river side of road. Vigetation low and weedy or Kristing, Beyond underting a patch of lane andding crescent stepped, merving away from river. Ther a low loguminas scrub, mostly green, some Cerew. . Level goverally 1.5-2 m. hogh marinen 3 m. farther out the secul is lower more word swift. Caeti become common. Then mangrove swamps afternating with consolidated dunes. On the dune, is a nally Randly, Cereus, Theophradia, servedo , Opentie it. if on tell. (m flat low ground) between patcher of margran are Distucted Tistuchello ; and I atis maritimo. be mangros her in Ricerno she and is mostly quete low, 1-3m but occasined trees that have escaped

(Bolivar) (atlantico) 161 1958 Colombia 160 april 12 - Bursaco mud Volcanoes about 6-8 km. e. of Turbaco, s. e. of Cartagens densely exceptitors, forming patches. Finhistylis the only plant on the must april 12 = Turbaco, s. e. of Cartagena in second growth thickets - fruit immature. 14 Cassia shows 2 mitall, plowers 15 (2pir) white, contrited, fragrant. oreasimal Opril 12 - morthof Benningville on road to Borr do Cenizas, allantico in consolidated sand dune first alove mangrave swamp in sliff shoul in the 16 Randia - fruit black, common in deciderous servel in small they to 4 m, telf. 17 Conscarfins exectin (. occasional great allows mangrives april 12 - west of Barranguilla 2 291. in dry diciderous frest low suffrulesant bed 12 Crotalaria Handard levender, lived with common in the cleanings. - purple keef deef purple. shrieto small tree 2 -4m, top 19 Cordia flower white fruit immaline common is but curiously appendaged.

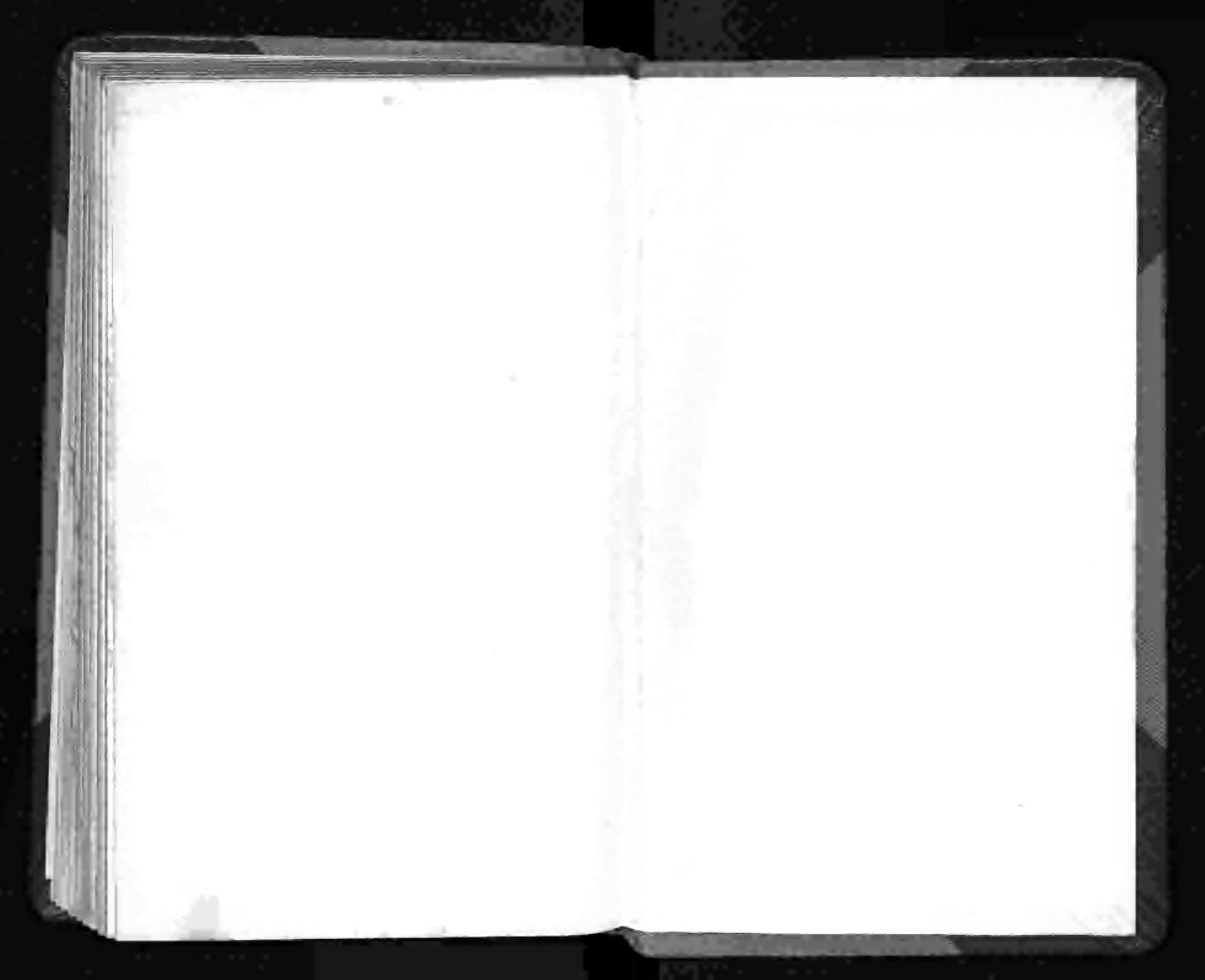
Colombia - Panam 163 Colombia 162 of city Waler surse lines april 14 - between Burnguille with green trees. from open and signit foledad. May grans field The deciderous wordland a few amall fronds made has between the trees or by damming ravines rather thick herbaceour water very green. ground cove, now completely Many small funda away dry. The trees are mostly mento Colombia - port with spiny acacias about no harbor - price projecting 2-3m tall. Tarther away beyond bar which enclose are some larger trave lagron. trees, perhaps 3 m., widely From here went out a sea. emma - puntin and a Rather muddy apparently shallow water from a low Cereus. considerable distance, Glincidia sepum is bounded very sharply present as living fence by blue water - perhaps posts, fully leafed out this is not shallow but in and green. merely the mud from the Mil 14 - flight Barranguilla magdaleng. - Town lanama ilham 35m Over the chips go de Lat Mulates Calotropic all aboundant (god in below 1/2) - dy - Harbando Cayor Demon - apparently a confirment around airfirst, locally. bunies need with small offer with Took off. open grassland between airport and Ris Magdalene, also in island in river granted by relate with white and chowing through wirely and to entering relity-opposed the over the Barranquilla is a great coconed plantetion. The count of the he there is there is infriend drowing sprawling city with many you to this from I class I was now trees in residencial areas; the interest was a street of the second rather concentrated business a harman my demand who top and Decideous woodland with cravel inside scattered green tren northwist Sanfolas. Inthe fully one the

57 ant Rug 166 The second hadre did the foreign anderstance to the I - the other was to the me the state of th manufacture to the same of the The strategy of the street Section Control - vinthing of the Minister the contract of the second amount mendening trees - The there was filled the the I -- - to fine our - I would note "TO TO ASTONA PLANEST TO BY ALLERY formely, the mile winds when the first the first of the After more your majorly. solvent 12 something in Will I think a Red nogenine was of permetrice a commenced personally intime the west into the gran with Ebrandant problems to ear two way more while you will see the window Wednesday the startinguay the med on a well of the Will the state of the state of of the normal develop. -115 in gill many my to the Viller Chroman and the many some groundly water with in Lead for mally -- Level my site thank and in the the everyou as not eversland. The object - The state of the of the beach ridge in and police the grown and free of a vast ment strange with theele was and more many discussion to the act - me , warming the right of - girled when the transmission willed - Lynn 17/ En - The many transfer of the Treatment 201 Discould a war of the delig much - way tethn in the insert of an - behip tobby as in gen of the words so wally in a whelly - The following 131 Hall middle for forth - confirmation to and they 4 the grant and a new The state of the same of the s -- moffered bed of with the ground offen martely of the - I start where a long week for the started Cartalda the many normaning "still-indant for en gent Steven James Trateria. direct fromthe from - Letter in a test apply you to - Let delice when former to the had licens mound work to in partitude of figure in a year

Puccel age of ruck-ng-da 168 of and to the decine a started to the first for the state of the first the order - med and an head of the original · Mayor Charles and Trans I did sould for the anning from free Land or down the order The many marketing with the William The The spile fol Victoria ment control Marriago dreaming groung " we will a fire wangs of decile The state of the s 5.12 - The of General the fits a medition of the Municipality & many and , up as bully , ATTECH STEEL SECULIAR STORY Called the a carrier described Endlikered to been thanken fred in and the manual and a great field Hamme willy be of a wide woods fred of laboration the form the fell Water Harman to a series Man (- Laly grants , marine Joint entitlement Middle pality wany in of many of the by opposition. must have many I be greated your brown sharp looken the west - the and the language in the day of the form part bute to the total Land of the stage Lagrandery and there is not 12-3- Autology party took only from medically and interesting that Sanda Lan Permanely 1 . I himy a foliage of fredge was between fright. 5 to landed or mit I regarden a brokent Ascend & Hambert Ender merteness come or defet in land dusia was pulled at a year to sented controled done flows - is proseed Tonce technic or west stops and at the it is brought as at a west from the - Division of the manual tradition and from the first of the general To fell out to be placetage in our of they a soll, an anglication of nation La milley the mortes from the It was not and a striple and Marie To larteness from the Thee T In the chargeness and from and off me while 9 pased tend of take - something windsty in many few

77 Adding the 754 - Mica agree - El falo esta 170 171 Intermedy ently ently 4. Feller wit tilly wasty. the transfer distance solventy sontier, mouth, with for there has some south a world the develop alendy structure stages of grantles - HA - man to one love The marrie - of the the per-Satisfan - Ermute min grant East Let miling as leaveredy in the nated and the wife from the close a morning nous dockly the court and of full offer tel from at By a magazinter ended or the stock. Dearly milyer I late being to I will the motor of forces the event on a register to the of a dis nd America It ispected to a mineralise from the thefit and on frequencials are 17 -- 161 of the dispose godest. - marchy form , it grany FILL 47 weekper and touted Die on from the The elected duy. Carald Olde he ringing with ward frame. - description to be of second is treating alice and along, many level for to red - fronte Il Course, someted day a morether field repaintly by tridger of rounded green trees Nava cut aliffractions const 607 appropriate du talondos rafficant of them to Consequence 5 1 - I margare - margare harden out the tree from swampianound frey to a kop I have been some transled, talet wint. suloged about surfect the wall Nest of this a long recy dian I tilowice will - strangely part gray tready. little more an ideapaylled traced, thread HATTE WAR ON TO SEE ST giglly rouse of harmand whyman graves. I de partir major donas til men a las Coulded this dry mountain rightly if late. alofus, morth, leasy Markatica partition -6-14 some fresh lefter for the contraction. tagle 2 ll pen Continue west of the

172 MER ER dulwadn El telvada - greatsmal 73 constructe to extension They from the commence. of transferred go and 2 - That for some grant to be monday to the second in a yeller protection to my Regar enthustry whomps with. frencher of leave trust dierry - 15 Well of the section ind apparent to a light The contract of the conproduce the Men per her by Entrades The west of the town he works and when the same at int of or words a stopen Worth good good and in the letterne in from E. Page of siteminach - soules Loute planted in facts in the pay tenger come and disconditions have not to stay, promotion to the promote Laire-1611 500 lost of from the Laconder 13-1 11 A POL which boud I to get it you to make a Received Limits - - Direction The mile before the party and the contract of the contra solder wheely cheared, governor continue to The second of the second of the second and the second second repainted by the grady. End - without wedge forthe and stoffer about It leader good to exchange nee dochety out - very to all by to leep nother gullen Clinical execut from he may think a southerty remarket TI Many of godley laplance - uga cana bounding youngly the hast matter which is get against Hedge to your fellipsen of abolis



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